

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference B431 PCT	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.		
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)	
PCT/GB 03/02889	04/07/2003	16/07/2002	
Applicant			
TYCO ELECTRONICS RAYCHEM N			
This International Search Report has beer according to Article 18. A copy is being tra	n prepared by this International Searching Authorsmitted to the International Bureau.	nority and is transmitted to the applicant	
This International Search Report consists It is also accompanied by	of a total of sheets. a copy of each prior art document cited in this	report.	
Basis of the report			
a. With regard to the language, the i	nternational search was carried out on the bases otherwise indicated under this item.	sis of the international application in the	
the international search was Authority (Rule 23.1(b)).	as carried out on the basis of a translation of the	ne international application furnished to this	
was carried out on the basis of the	I/or amino acid sequence disclosed in the in sequence listing: nal application in written form.	ternational application, the international search	
	national application in computer readable form	n.	
furnished subsequently to	this Authority in written form.		
<u></u>	this Authority in computer readble form.		
the statement that the sub- international application as	sequently furnished written sequence listing de filed has been furnished.	oes not go beyond the disclosure in the	
the statement that the infor	mation recorded in computer readable form is	s identical to the written sequence listing has been	
2. X Certain claims were foun	d unsearchable (See Box I).		
3. X Unity of invention is lack	ing (see Box II).		
4. With regard to the title,			
X the text is approved as sub	mitted by the applicant.		
the text has been establish	ed by this Authority to read as follows:		
		•	
5. With regard to the abstract,			
	mitted by the applicant. ed, according to Rule 38.2(b), by this Authorit date of mailing of this international search rep		
6. The figure of the drawings to be publis	hed with the abstract is Figure No.	6	
as suggested by the application	ant.	None of the figures.	
because the applicant faile			
X because this figure better c	haracterizes the invention.		



pational application No.
PCT/ GB: 03/ 02889

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

A device for cleaving an optical fibre (19,31) comprises a fixing mechanism to fix a fixing element (15) to the optical fibre, and a cleaving mechanism to cleave the optical fibre. The fixing element may be a ferrule, and the fixing element may be fixed to the fibre such that the fibre extends through the fixing element. The cleaving mechanism cleaves the fibre preferably when the fixing element has been fixed to the fibre. The cleaving device may be a hand-held, and hand-operated, tool. The device enables the possibility of automatic preset positioning and/or orienting of the cleaved fibre end face (which may be angled to the axis of the fibre) with respect to the fixing element. Attachments may be provided for holding the fibre and fixing element during the cleaving operation and for holding a connector body while the fixing element with the cleaved fibre is inserted into the connector.

INTERNATIONAL SEARCH REPORT

tional Application No /GB 03/02889

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G02B6/25

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) $IPC\ 7\ G02B$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUM	NTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 976 390 A (GEE ARNOLD E ET AL) 11 December 1990 (1990-12-11) column 1, line 39 - column 4, line 2; figures 2,4	1,3-7, 14,16, 19,21
x	US 4 893 892 A (ZIEMEK GERHARD ET AL) 16 January 1990 (1990-01-16) column 1, line 50 - column 3, line 46; figures 1-6	1,3,7, 17,18,20
x	US 4 229 876 A (DOTY JOHN S) 28 October 1980 (1980-10-28) column 2, line 38 - column 3, line 30; figures 4,11	1-7,16, 17,19,21
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Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 3 September 2003	Date of mailing of the international search report - 9, 12, 2003
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Andreassen, J.
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,	Andreassen, J.

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International Application No PCT/GB 03/02889

Category °	tion) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 621 754 A (LONG ERIC L ET AL) 11 November 1986 (1986-11-11) column 2, line 25 - line 41; figures	1-8,14, 16,21
x	column 4, line 4 - line 9 column 13, line 11 - line 41 WO 00 41013 A (BELDYCKI WOJCIECH ; VALDOR FIBER OPTICS INC (US)) 13 July 2000 (2000-07-13) page 2, line 14 - page 3, line 17; figure 16 page 15 - page 16	1-7,16, 19-21

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-8,14-22,28

Device for cleaving an optical fibers with various fixing, cleaving and clamping mechanisms

1.1. claims: 1-3,8,16

The fixing element and mechanism

1.2. claims: 4,28

A portable handheld tool

1.3. claims: 14,15

An aperture for removing seperated end portions of the cleaved optical fibers

1.4. claims: 17,18

A clamping mechanism including the use of tape to grip the fibers

1.5. claims: 5-7,19-22

The cleaving mechanism

2. claims: 9-13

Concerns cleaved end-faces being non-perpendicular to the fiber direction

3. claim: 23

Concerns the addition of a counting device

4. claims: 29-39

Concerns the addition of an external connector holder to the device

5. claims: 24-26

Cleaving a plurality of optical fibers simultaneously



rnational application No. PCT/GB 03/02889

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
	\cdot ,
2. X	Claims Nos.: 27 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
	Claim 27 not allowed according to Rule 6.2a PCT. Claim merely refers to the description and drawings included in the application
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	ernational Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4 🗔 .	No. 11 and additional accords force were timely asid by the applicant. Consequently, this International Search Report is
^{4.} LXJ ¦	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
	1-8, 14-22, 28
Remark c	The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210	
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